

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

### DIGITALLY-SYNTHESIZED LOOP FILTER CIRCUIT PARTICULARLY USEFUL FOR A PHASE LOCKED LOOP

which (check)  is attached hereto.  
 and is amended by the Preliminary Amendment attached hereto.  
 was filed on July 10, 2001 as Application Serial No. 09/902,541  
 and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
Number	Country	Day/Month/Year Filed	Yes	No
N/A				

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Provisional Application Number	Filing Date
60/217,207	July 10, 2000
60/217,208	July 10, 2000

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending, abandoned)
N/A		

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Mark Zagorin (36,067); Andrew C. Graham (36,531); David W. O'Brien (40,107);  
Jeffrey G. Toler, (38,342); Jeffrey S. Abel, (36,079); and Michael P. Noonan, (42,038).

Please direct all correspondence concerning this application to the USPTO Customer Number, if provided, or otherwise to the individual and/or firm named below:

Customer Number 22120  
**ZAGORIN, O'BRIEN & GRAHAM, L.L.P.**  
 401 WEST 15<sup>TH</sup> STREET, SUITE 870  
 AUSTIN, TX 78701  
 Telephone: (512) 347-9030  
 Facsimile: (512) 347-9031



I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole (or first joint) inventor: Michael H. Perrott

Inventor's Signature: Mike Perrott Date: SEPT 5, 2001  
 Residence: Cambridge, MA Citizenship: USA  
 Post Office Address: ~~180 3rd Street 181 TH IR D ST~~  
~~Cambridge, MA 02141~~

Full name of second joint inventor: Rex T. Baird

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Residence: Austin, TX Citizenship: USA  
 Post Office Address: 4832 Calhoun Canyon Loop  
 Austin, TX 78735

Full name of third joint inventor: Yunteng Huang

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Residence: Austin, TX Citizenship: PRC  
 Post Office Address: 5220 Bandera Creek Trail  
 Austin, TX 78735

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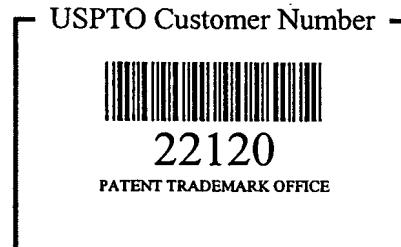
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Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Residence: Cambridge, MA  
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 Cambridge, MA 02141 Citizenship: USA

Full name of second joint inventor: Rex T. Baird

Inventor's Signature: Rex T Baird Date: 10/12/01  
 Residence: Austin, TX  
 Post Office Address: 4832 Calhoun Canyon Loop  
 Austin, TX 78735 Citizenship: USA

Full name of third joint inventor: Yunteng Huang

Inventor's Signature: YH Huang Date: 10/12/01  
 Residence: Austin, TX  
 Post Office Address: 5220 Bandera Creek Trail  
 Austin, TX 78735 Citizenship: PRC